Computer Engineering 175
Introduction to Formal Language Theory
and Compiler Construction

Winter 2005
Mondays, Wednesdays, and Fridays
10:30 am – 11:35 am
ENGR 106

Instructor
Instructor: Darren Atkinson
Office: ENGR 245
Office hours: Mondays, Wednesdays, and Fridays, 9:45 am – 10:30 am and 2:15 pm – 3:00 pm
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Textbooks

Teaching Assistant
Teaching assistant: Munawer Saeed
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Grading
Midterm exam: 25%
Final exam: 35%
Project: 40%

Overview
This course will discuss the theory and practice of building a compiler. The exams will mostly cover the theoretical aspects of formal languages and compiler design. The project will require you to build a simple compiler for a subset of the C language. You will implement the project in either the C or C++ programming language. All work must be done individually. The project will be delivered and graded in stages: lexical analysis, syntax analysis, semantic analysis (scoping and type checking), and code generation (function calls and statements).